

~~AMENDED~~

No 49234

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

JUL 30 1985

Date of filing in State Engineer's Office.....
 Returned to applicant for correction.....
 Corrected application filed.....
 Map filed.....

AUG 13 1985

OCT 10 1985

OCT 10 1985

The applicant Pace Enterprises
369 Railroad Street, of Elko,
 Street and No. or P.O. Box No. City or Town
Nevada, 89801, hereby make application for permission to appropriate the public
 State and Zip Code No.

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.) Carl Pacini, George Atwood,
Marvin Churchfield, R.C. Ellis, S.J. Churchfield.

- The source of the proposed appropriation is Underground
Name of stream, lake, spring, underground or other source
- The amount of water applied for is 2.0 cfs second-feet
One second-foot equals 448.83 gals. per min.
 (a) If stored in reservoir give number of acre-feet.....
- The water to be used for Geothermal (Space Heating)
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
- If use is for:
 - Irrigation, state number of acres to be irrigated:.....
 - Stockwater, state number and kinds of animals to be watered:.....
 - Other use (describe fully under "No. 12. Remarks").....
 - Power:
 - Horsepower developed.....
 - Point of return of water to stream.....
- The water is to be diverted from its source at the following point: SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 11, T 34 N,
Describe as being within a 40-acre subdivision of public
R 55 E, MDB & M., at a point from which the center $\frac{1}{4}$ corner of said Section 11
survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
bears S 55° 49' 04" W 1450.21 feet.
- Place of use. Portions of the following: SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$,
Describe by legal subdivision. If on unsurveyed land, it should be so stated.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 11; NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 12; SW $\frac{1}{4}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 1;
SW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 2 All in T 34 N, R 55 E, MDB & M.
- Use will begin about January 1 and end about December 31, of each year.
Month and Day Month and Day
- Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) Drilled & cased well properly equipped with
State manner in which water is to be diverted, i.e. diversion structure, ditches and
pump and distribution system.
flumes, drilled well with pump and motor, etc.
- Estimated cost of works \$250,000

10. Estimated time required to construct works..... 3 years
If well completed, describe works.
11. Estimated time required to complete the application of water to beneficial use..... 5 years
12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.
If sufficient volume and temperatures are developed the applicants may heat 4 Motels, 2 Service Stations, various buildings within a shopping mall, greenhouse and a Subdivision. After heat extraction waters may be used for irrigation or possibly used for fish propagation. Use September thru May is 897.66 gals/min., 24 hr/day, 273 days equals 352,888.099 gals/yr. Use May thru September is 224 gals/min., 24 hrs/day, 92 days equals 29,675,520 gals/yr. The total consumptive use is 382,563,619 gals/yr.

Compared..... dn/js mm/se

By..... s/ Alan S. Boyack
Alan S. Boyack, Agent
515 South Fifth Street
Elko, Nevada 89801

Protested.....

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production well and the amount of fluid injected into the injection well to determine the total amount of fluid diverted and consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal

(CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and

not to exceed..... 2.0 cubic feet per second, but not to exceed 145 acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before..... April 13, 1989

Proof of completion of work shall be filed before..... May 13, 1989

Application of water to beneficial use shall be made on or before..... April 13, 1992

Proof of the application of water to beneficial use shall be filed on or before..... May 13, 1992

Map in support of proof of beneficial use shall be filed on or before..... N/A

Completion of work filed..... IN TESTIMONY WHEREOF, I..... PETER G. MORROS....., State Engineer of Nevada, have hereunto set my hand and the seal of

Proof of beneficial use filed..... my office, this..... 13 day of..... April.....

Cultural map filed.....

Certificate No..... Issued.....

A.D. 19 87

Peter G. Morros
State Engineer

SEE CORRECTED PERMIT

PAGE 2

PERMIT TERMS CONTINUED

fluids to the source must be submitted together with the Proof of Completion.

An annual report for this well must be filed under this permit describing the amount of geothermal fluid diverted and consumed to a beneficial use for the calendar year. This report must detail the amount of fluid produced and injected.

The total withdrawal of the geothermal fluid shall be limited to 1448 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 10% of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto.

A semi-annual report must be submitted to the State Engineer on January 1 and July 1 of each year detailing the amount of water diverted and placed to beneficial use and the temperature and electrical conductivity readings of the extracted fluid.

If pumpage under this permit has any adverse effect on existing rights at any future date, then withdrawals and consumptive use may be further limited.



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bears S. 55° 49' 04" W. 1450.21 feet.
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Section 1; SW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 2. All in T. 34 N., R. 55 E., MDB & M.
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(CONTINUED ON PAGE 2)

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Work must be prosecuted with reasonable diligence and be completed on or before..... April 13, 1989

Proof of completion of work shall be filed before..... May 13, 1989

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Cultural map filed.....

Certificate No..... Issued.....

A.D. 19..... 87.....

State Engineer

(PERMIT TERMS CONTINUED)

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The total withdrawal of the geothermal fluid shall be limited to 1448 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 20% of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto.

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